

Survey of Environmental Protection Expenditures, 2010

Confidential when completed.

Collected under the authority of the *Statistics Act*, Revised Statutes of Canada, 1985, Chapter S19.

Si vous préférez ce questionnaire en français, veuillez cocher

Correct as required

0001 Company name

0002 Establishment name

0021 C / O

0004 Address

0005 City

0006 Province/Territory 0007 Postal code

Please read before completing

PURPOSE OF THE SURVEY

This survey provides a measure of the expenditures made by industry for environmental protection in Canada in response to Canadian and international environmental regulations, conventions and voluntary agreements. The survey also aims at identifying environmental management practices and technologies used in Canadian industry for the purpose of preventing or abating pollution. These data will be aggregated with information from other sources to produce official estimates of environmental protection expenditures.

The results of this survey will be published in the Statistics Canada publication *Environmental Protection Expenditures in the Business Sector, 2010*, Catalogue No. 16F0006XIE.

CONFIDENTIALITY

Statistics Canada is **prohibited by law** from publishing any statistics which would divulge information obtained from this survey that relates to any identifiable respondent, without the previous written consent of that respondent. The data reported will be treated in strict confidence, used for statistical purposes and published in aggregate form only. The confidentiality provisions of the *Statistics Act* are not affected by either the *Access to Information Act* or any other legislation.

FAX OR OTHER ELECTRONIC TRANSMISSION DISCLOSURE

Statistics Canada advises you that there could be a risk of disclosure during the facsimile or other electronic transmission. However, upon receipt, Statistics Canada will provide the guaranteed level of protection afforded to all information collected under the authority of the *Statistics Act*.

AUTHORITY

This survey is conducted under the authority of the *Statistics Act*, Revised Statutes of Canada, 1985, Chapter S19. **COMPLETION OF THIS QUESTIONNAIRE IS A LEGAL REQUIREMENT UNDER THE STATISTICS ACT.**

INQUIRIES

If you require assistance in completing this questionnaire or if you have any questions or comments regarding this survey, please refer to the Guide to Definitions and Classification Details found at the end of this questionnaire or contact:

Statistics Canada
 Telephone (toll-free): **1-866-445-4323**
 E-mail: **enviro-oid-exp@statcan.gc.ca**

In all correspondence concerning this questionnaire, please quote the identification number that appears on the address label.

Important : Please read the Guide to Definitions and Classification Details included at the end of this form before answering. If your response for an item is zero, please write "0" in the corresponding box rather than leaving the cell blank.

Please return this completed questionnaire within 30 days of receipt.

If you are unable to do so, kindly inform our office of the expected completion date.

For Statistics Canada use only

Rec. Y M D	Ed. Y M D	Kyd. Y M D	Bat.	Coll.	FSC
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How to report environmental protection expenditures:

For Questions 2 to 11 of this questionnaire please only report expenditures made in response to or in anticipation of Canadian or international environmental regulations, conventions or voluntary agreements.

Please report your expenditures in Canadian dollars. Your best estimate is acceptable.

If the expenditure is zero Report: \$

The data reported in this questionnaire will be treated in strict confidence, used for statistical purposes and published in aggregate form only.

1. Reporting year

Report must cover your most recent fiscal year that **ended** any time between **April 1, 2010** and **March 31, 2011**.

	Year	Month	Day		Year	Month	Day		
From	0011	<input type="text"/>	<input type="text"/>	<input type="text"/>	to	0012	<input type="text"/>	<input type="text"/>	<input type="text"/>

If the reporting period is less than 12 months, please indicate the circumstances in the Comments section at the end of the questionnaire.

2. Waste management and sewerage services

Waste management and sewerage services include the collection, treatment, storage, disposal and recycling of all domestic, industrial, hazardous and non-hazardous waste and sewage.
Refer to page 14 of this questionnaire for more information.

Include:

- ◆ All expenditures related to waste collection, treatment, storage and disposal, including recycling done by your establishment's employees and services provided by a private contractor or a federal, provincial or local government body
- ◆ All expenditures related to the installation of sewage infrastructure and expenditures related to the use, collection, treatment and disposal of sewage
- ◆ All expenditures on sewerage services provided by a federal, provincial or local government body

Exclude:

- Expenditures on on-site recycling (to be included in Question 4)

Operating expenses	Capital expenditures	TOTAL
220	230	240
\$ <input type="text"/>	+ \$ <input type="text"/>	= \$ <input type="text"/>
, <input type="text"/> , <input type="text"/> , <input type="text"/>	, <input type="text"/> , <input type="text"/>	, <input type="text"/> , <input type="text"/> , <input type="text"/>

3. Pollution abatement and control (end-of-pipe) processes

Abatement and control of pollution are performed by using end-of-pipe equipment or installations. **These end-of-pipe processes treat pollution after they are produced and are not an integral part of production**; their sole purpose is to abate or to control undesirable substances resulting from normal production. Refer to page 14 of this questionnaire for more information.

Do not include waste management or sewerage-related expenditures reported in Question 2.

3.1 Pollution abatement and control expenditures

If the expenditure is zero, please write "0" in the corresponding box.

Include:

- ◆ Expenditures for equipment or facilities that are separately identifiable and that have been installed exclusively to reduce or eliminate pollutants resulting from production

Exclude:

- Expenditures specific to workers' health and safety
- Expenditures on waste management already reported in Question 2
- Expenditures on sewage treatment or services already reported in Question 2

Operating expenses		Capital expenditures		TOTAL
250		260		270
\$ <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/>	+	\$ <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/>	=	\$ <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/>

3.2 Did you report capital expenditures in Question 3.1 (cell 260)?

275 1 Yes 3 No → Go to Question 3.3



What proportion of capital expenditures reported in Question 3.1 (cell 260) was spent on reducing or abating each of the following? Refer to page 14 of this questionnaire for more information.

Substances released to air		Substances released to surface waters		On-site releases to land/underground injection		Noise, vibration or radiation		
280		290		300		310		
<input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> %	+	<input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> %	+	<input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> %	+	<input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> %	=	1 0 0 %

3.3 Did you report operating expenditures in Question 3.1 (cell 250)?

0315 1 Yes 3 No → Go to Question 4



What proportion of operating expenditures reported in Question 3.1 (cell 250) was spent on reducing or abating each of the following? Refer to page 14 of this questionnaire for more information.

Substances released to air		Substances released to surface waters		On-site releases to land/underground injection		Noise, vibration or radiation		
0320		0330		0340		0350		
<input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> %	+	<input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> %	+	<input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> %	+	<input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="text"/> %	=	1 0 0 %

4. Pollution prevention

“Pollution prevention is the use of processes, practices, materials, products or energy that avoid or minimize the creation of pollutants and waste, and reduce overall risk to human health or the environment. Pollution prevention is the elimination or minimization of pollutants and waste before they are created.”

Pollution Prevention - A Federal Strategy for Action, Government of Canada (1995)

This question identifies expenditures and methods used for the purpose of preventing or minimizing pollution and waste, or promoting resource conservation. *Refer to page 14 of this questionnaire for more information.*

4.1 Pollution prevention methods

If you prevented or reduced waste, pollutants or conserved resources in your fiscal year 2010, please indicate how it was achieved by checking the appropriate box(es). *Refer to page 15 of this questionnaire for a description of each method.*

		Yes	No
Product design or reformulation			
Reformulating or redesigning end products to be non-toxic or less polluting upon use, release or disposal	810	1 <input type="radio"/>	3 <input type="radio"/>
Equipment or process modifications (integrated process)			
Upgrading or replacing production unit equipment or methods	830	1 <input type="radio"/>	3 <input type="radio"/>
Recirculation, on-site recycling or reuse or recovery of materials or substances			
850	1 <input type="radio"/>	3 <input type="radio"/>	
Materials or feedstock substitution, solvent reduction, elimination or substitution			
Changing the raw materials of product to use non-toxic or less polluting raw materials	870	1 <input type="radio"/>	3 <input type="radio"/>
Improved inventory management or purchasing techniques			
Integrating environmental considerations into existing and new purchasing practices, as well as into inventory management systems	875	1 <input type="radio"/>	3 <input type="radio"/>
Prevention of leaks and spills	880	1 <input type="radio"/>	3 <input type="radio"/>
Good operating practices or pollution prevention training			
Modifying existing equipment or methods by such steps as improved housekeeping, system adjustments, or process/product inspections	885	1 <input type="radio"/>	3 <input type="radio"/>
Other (Please specify)	890	1 <input type="radio"/>	3 <input type="radio"/>
0891			
0892			
0893			

4.2 Expenditures on pollution prevention

If the expenditure is zero, please write "0" in the corresponding box.

Include:

- ◆ Expenditures for equipment or facilities integrated in a production process that avoid or minimize the production of pollutants and waste
- ◆ Expenditures for equipment or facilities related to leak and spill prevention. They may include expenditures on the following: spill containments; dyke extensions; and accessories (valves, pumps)
- ◆ Expenditures for equipment or facilities used for conserving energy or water
- ◆ Expenditures for equipment or facilities associated with recirculation, recovery, reuse and on-site recycling of materials or substances
- ◆ Expenditures related to operational or process changes aimed at pollution prevention. Examples include product re-design (e.g., feedstock/raw material substitution), good operating practices (e.g., modification of process, staff training), etc.

Exclude:

- Expenditures specific to workers' health and safety
- Expenditures already included in Question 2

Operating expenses	Capital expenditures	TOTAL
500 \$ <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> , <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> , <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/>	+ \$ 510 <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> , <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> , <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/>	= \$ 520 <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> , <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> , <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/>

4.3 Did you report capital expenditures in Question 4.2 (cell 510)?

525 1 Yes 3 No → Go to Question 4.4



What proportion of capital expenditures reported in Question 4.2 (cell 510) was spent on preventing or minimizing each of the following?

Substances released to air	Substances released to surface waters	On-site releases to land/underground injection	Noise, vibration or radiation	Other
530 <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> %	+ 540 <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> %	+ 550 <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> %	+ 560 <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> %	+ 570 <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> %
= 100%				

4.4 Did you report operating expenditures in Question 4.2 (cell 500)?

0575 1 Yes 3 No → Go to Question 5



What proportion of operating expenditures reported in Question 4.2 (cell 500) was spent on preventing or minimizing each of the following?

Substances released to air	Substances released to surface waters	On-site releases to land/underground injection	Noise, vibration or radiation	Other
0580 <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> %	+ 0590 <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> %	+ 0600 <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> %	+ 0610 <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> %	+ 0620 <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> %
= 100%				

5. Environmental monitoring

If the expenditure is zero, please write "0" in the corresponding box.

Include:

- ◆ Expenditures related to equipment, supplies, labour and purchased services required for monitoring pollutants emitted by this establishment. Expenditures associated with participation in the National Pollutant Release Inventory (NPRI) and other similar programs are to be included

Operating expenses		Capital expenditures		TOTAL										
100	\$		110	\$		+	\$		120	=	\$			

6. Environmental assessment and audits

If the expenditure is zero, please write "0" in the corresponding box.

Include:

- ◆ Expenditures for reviews of current operations for compliance with regulations (audits)
- ◆ Expenditures to evaluate the environmental impact of proposed programs or projects (assessments)
- ◆ Expenditures for associated legal and consulting costs

Operating expenses		Capital expenditures		TOTAL										
130	\$		140	\$		+	\$		150	=	\$			

7. Site reclamation and decommissioning

If the expenditure is zero, please write "0" in the corresponding box.

Expenditures on site reclamation and decommissioning made during your fiscal year 2010 for any active or inactive site belonging to your establishment. Please include expenditures on site decommissioning even if site closed before 2010.

Exclude:

- Fines or compensation for environmental damage (this is to be reported in Question 9)
- Provisions for future environmental liability

Operating expenses		Capital expenditures		TOTAL										
160	\$		170	\$		+	\$		180	=	\$			

8. Protection and restoration of wildlife and habitat

If the expenditure is zero, please write "0" in the corresponding box.

Include:

- ◆ Expenditures made to protect or restore wildlife and habitat that could be or have been adversely affected by this establishment's operations

Exclude:

- Expenditures for site reclamation and decommissioning which are already reported in Question 7
- Expenditures for aesthetic purposes

Operating expenses	Capital expenditures	TOTAL
190 \$ <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> , <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> , <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/>	+ \$ ²⁰⁰ <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> , <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> , <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/>	= \$ ²¹⁰ <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> , <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> , <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/>

9. Environmental charges

If the expenditure is zero, please write "0" in the corresponding box.

Include:

- ◆ Permits, fees, levies, special assessments and related fees
- ◆ Any fines, penalties, or damage awards paid to government agencies or to individuals
- ◆ Other charges paid to regulating bodies in order to allow operations to take place at this establishment

Operating expenses

760
\$
,
,

What proportion of the operating expenses, above, was spent on each of the following?

1. Permits, fees, levies, special assessments and related fees	0761	<input style="width: 30px;" type="text" value=""/> <input style="width: 30px;" type="text" value=""/> %
2. Any fines, penalties or damage awards paid to government agencies or individuals, or other charges paid to regulating bodies in order to allow operations to take place at this establishment	0762	<input style="width: 30px;" type="text" value=""/> <input style="width: 30px;" type="text" value=""/> %

10. Other environmental protection expenditures

If the expenditure is zero, please write "0" in the corresponding box.

Include:

- ◆ The operating costs of administrating your environmental program not included elsewhere
- ◆ Environmental training and information programs not included elsewhere
- ◆ Any other additional expenditures not included elsewhere that are required to comply with environmental regulations, conventions or voluntary agreements

Exclude:

- Research and development expenditures

Operating expenses	Capital expenditures	TOTAL
770 \$ <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> , <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> , <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/>	+ \$ ⁰⁷⁷¹ <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> , <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> , <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/>	= \$ ⁰⁷⁷² <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> , <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> , <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/> <input style="width: 100px;" type="text" value=""/>

11. Total expenditures on environmental protection

If the expenditure is zero, please write "0" in the corresponding box.

Cell 801: includes total from operating expenses reported in questions 2 to 10.

Cell 802: includes total from capital expenditures reported in questions 2 to 8 and question 10.

They should also include all data for which breakdowns were not available.

Operating expenses	Capital expenditures	TOTAL
801 \$ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	+ \$ ⁸⁰² <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	= \$ ⁸⁰³ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

11.1 In order to help us reduce the need for follow-up inquiries, please provide a brief explanation to account for:

- ◆ Significant changes in environmental protection expenditures made by your establishment (either increased or decreased compared to previous reporting periods)
- ◆ The level of expenditures in the current reporting period if this is the first time your establishment has reported expenditures

For example, "We installed low-NO_x burners in 2010 – Question 4"

0804	<input style="width: 100%; height: 25px;" type="text"/>
0805	<input style="width: 100%; height: 25px;" type="text"/>
0806	<input style="width: 100%; height: 25px;" type="text"/>
0807	<input style="width: 100%; height: 25px;" type="text"/>

For Information Only

12. Environmental technologies

If the expenditure is zero, please write "0" in the corresponding box.

Did you invest in renewable energy technologies in your fiscal year 2010?

Refer to page 15 of this questionnaire for more information.

1001

Yes

No



Go to question 13



Please indicate your capital expenditures in your fiscal year 2010 for each of the following:

Renewable energy source:

Capital expenditures

1. Small, mini- and micro-hydroelectric facility

1002

\$

2. Solar energy systems or equipment

1003

\$

3. Wind energy systems or equipment

1004

\$

4. Biomass energy (e.g., energy crops and waste-to-energy)

1005

\$

5. Geothermal

1006

\$

6. Other renewable energy systems or equipment

Please specify

1011

1007

\$

1012

1008

\$

1013

1009

\$

1014

1010

\$

7. Total

1020

\$

13. Environmental management practices

Please indicate the environmental management practices adopted or utilized by this establishment in your fiscal year 2010 to avoid or minimize pollution or to conserve resources. Refer to page 16 of this questionnaire for a description of each practice.

			Yes	No
1. Did this establishment use an environmental management system?	951	1	<input type="radio"/>	3 <input type="radio"/>
2. Did this establishment use Life Cycle Management, Life Cycle Assessment or Design for Environment for decision making?	965	1	<input type="radio"/>	3 <input type="radio"/>
3. Is this establishment certified under the ISO 14000 family of environmental management standards?	953	1	<input type="radio"/>	3 <input type="radio"/>
4. Did this establishment develop and implement a pollution prevention plan?	970	1	<input type="radio"/>	3 <input type="radio"/>
5. Did this establishment implement any environmental voluntary agreement, or did it participate in any voluntary environmental program?	955	1	<input type="radio"/>	3 <input type="radio"/>
<p>Examples include Environmental Performance Agreements (EPAs), Canadian GHG Reductions Registry© or Canadian Industry Program for Energy Conservation. <i>If yes, please list programs, accords or agreements.</i></p>				
0976				
0977				
0978				
6. Did this establishment have a “green” procurement policy?	957	1	<input type="radio"/>	3 <input type="radio"/>
7. Were any of the goods produced by this establishment certified by an environmental program, such as the “Enviro Choice Program” or Ecologo?	959	1	<input type="radio"/>	3 <input type="radio"/>
8. a) Did this establishment have an environmental supply chain management policy?	0972	1	<input type="radio"/>	3 <input type="radio"/>
b) Was this establishment impacted by the environmental supply chain management policy in place at a supplier or client business?	0973	1	<input type="radio"/>	3 <input type="radio"/>
9. Did this establishment use an energy management or monitoring system(s) to improve efficiency?	2032	1	<input type="radio"/>	3 <input type="radio"/>
10. Did this establishment perform an energy audit in the last three years (2008-2010)?	2033	1	<input type="radio"/>	3 <input type="radio"/>

11. Did this establishment take advantage of any Canadian federal or provincial/territorial government environmental incentive programs, grants, loans, or tax credits during the 2010 fiscal year? 0974

Yes No

1 3

Examples include ecoENERGY Retrofit program, or Accelerated Capital Cost Allowance for energy efficiency and renewable energy sources.
If yes, please specify the incentive programs, grants or loans.

0979

0980

0981

12. Other (Please specify) 967

1 3

0982

0983

0984

13. Did this establishment perform a greenhouse gas emissions inventory in 2010? 1015


1 3

14. Did this establishment participate in any form of carbon-trading or purchase/sell carbon-offset credits in 2010? 1016

1 3

Certification

I certify that to the best of my knowledge, the information provided in this questionnaire is correct and complete.

Name of person completing this questionnaire. 0026 1 <input type="radio"/> Mr. 2 <input type="radio"/> Mrs. 3 <input type="radio"/> Miss 4 <input type="radio"/> Ms	Signature  <input type="text"/>
--	---

Last name 0054 <input type="text"/>	First name 0013 <input type="text"/>
--	---

Title 0014 <input type="text"/>	Telephone number 0017 <input type="text"/>	Ext. number 0027 <input type="text"/>
------------------------------------	---	--

E-mail address 0018 <input type="text"/>	Fax number 0016 <input type="text"/>
---	---

Website address 0020 <input type="text"/>	Date 0015 <input type="text"/> Year <input type="text"/> Month <input type="text"/> Day <input type="text"/>
--	---

Approximately how long did it take to collect the data and complete this survey? 9910 hour(s) 9909 minutes

In the future, would you prefer to receive this survey in electronic format? 862 1 Yes 3 No

Comments

We invite your comments or suggestions on the following or any other topics related to the Survey of Environmental Protection Expenditures. We appreciate your assistance.

- Questionnaire content
- New questions of interest to your industry
- Clarity of questions and provision of sufficient examples
- Order and flow of questions
- Timing of receipt of questionnaire and the period given for response
- Alternative sources of information to further reduce response burden
- Potential for electronic data reporting

9920

9913

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If you have any questions, please contact us.
Telephone (toll free) 1-866-445-4323
Fax: 1-888-883-7999 (within Canada)
E-mail: enviro-oid-exp@statcan.gc.ca

Please return this
questionnaire in the
envelope provided

Thank you for your cooperation !

Guide to Definitions and Classification Details

Establishment

An establishment is defined as the most homogeneous unit of production for which a business maintains accounting records. From these accounting records, it is possible to assemble all the data elements required to compile the total sales or shipments, inventories, cost of materials and services, labour and capital used in production.

Environmental protection expenditures

Environmental protection expenditures are defined as all operating expenses and capital and repair expenditures that are incurred in order to anticipate or to comply with Canadian or international environmental regulations, conventions or voluntary agreements. They consist of expenditures for pollution prevention, abatement and control, expenditures for protecting and restoring wildlife and habitat, expenditures for environmental monitoring, environmental assessments and audits, and expenditures for reclamation and decommissioning of sites. **Environmental protection expenditures incurred that are not in response to current or anticipated Canadian or international regulations, conventions or voluntary agreements *should be excluded*. In addition, expenditures to improve employee health, workplace safety and site beautification *should also be excluded*.**

Expenditures to produce pollution prevention, abatement and control equipment for sale are also excluded as they would appear twice in the expenditure data produced by Statistics Canada. Expenditures for environment-related research and development are also excluded since they are collected elsewhere in Statistics Canada.

Environmental conventions or voluntary agreements refer to any formal, multi-party commitment by an industry or an industry association for instance, to meet specific targets in terms of habitat protection, waste reduction, or the elimination or reduction of specific materials that are considered to be harmful or toxic to the natural environment in Canada. Examples include the following: the Canada-U.S. Air Quality Agreement; the "Responsible Care" program from the Canadian Chemical Producers Association; the Canadian GHG Reductions Registry® ; etc.

Environmental regulations refer to any current Canadian federal, provincial or municipal law or international legislation that is intended to protect or to restore the environment in Canada. Expenditures related to anticipated legislation may be included as long as its provisions are known.

How to report

Please report expenditures in **Canadian dollars for your 2010 fiscal year**. If, for certain categories, no expenditures have been incurred, **please write "0" in the corresponding box. Do not leave the box blank**. Where precise data are not available, your best estimate is acceptable. If additional information is available in an annual report or an environmental performance report, **please include a copy** when you return the questionnaire.

To report capital expenditures

Include all relevant outlays for machinery and equipment and their installation and repair that have been capitalized, as well as for the construction of non-residential facilities (contractors or own employees). For construction, include all costs associated with demolition, planning and design (such as engineering and consulting fees), any materials supplied to construction contractors for installation and any costs associated with the purchase of land that are neither amortized nor depreciated.

Exclude any provisions for future environmental liability.

To report operating expenses

Include all expenses related to environmental protection incurred for labour, materials and supplies, maintenance and repair, and purchased services (include fuel and electricity expenses for machinery and equipment whose sole purpose is to protect the environment).

Exclude depreciation on machinery and equipment.

For logging activities

Use Question 8 to report additional expenditures for logging caused by environmental regulation or convention. **Include** the extra cost of any practice that would not otherwise be followed in the absence of environmental regulation or convention. **Exclude** the foregone revenues resulting from regulations or conventions that reduce the allowable harvest.

For mining activities

Use Question 3 to report any expenditures that are related to the handling and treatment of mine tailings and that are required by environmental regulation. Even if some of these activities are now considered to be "standard practice", include related expenditures if they are required by regulation or convention. Use Question 10 to report imputed interest on funds held in trust against future environmental liabilities. Report only actual expenditures.

For petroleum operations

Please report separately, if possible, environmental protection expenditures associated with different petroleum operations: exploration, refining and chemical products.

Question 2) Waste management and sewerage services

What is waste?

There have been several definitions of waste proposed in recent years. One common thread among these definitions is the concept that waste is a material that is unwanted by its producer. The unwanted materials may be by-products of a production process - fly ash from a furnace, for example. Alternatively they might be products, the inherent value of which has been consumed from the perspective of the current holder - for example, a newspaper that has been read, a package that has been opened and emptied of its contents or an apple eaten to the core are all similar insofar as they have lost their original inherent value from the consumer's perspective.

Hazardous waste

Includes all materials that may be hazardous to human health or the environment, due to their nature or quantity, and which require special handling techniques as specified by the Transportation of Dangerous Goods Regulations (1985), The Canadian Environmental Protection Act (1988), The Basel Convention (1989), or the Export and Import of Hazardous Waste Regulations (1992).

Question 3) Pollution abatement and control (end-of-pipe) processes

3.1 Pollution abatement and control (end-of-pipe processes) can be described as equipment and processes that treat pollution and wastes *after* they have been created. Examples of these types of equipment or processes include scrubbers at the end of emission stacks, biological and chemical systems for treating water (such as a water treatment plant), filtration systems, cyclones or other barrier systems. These end-of-pipe processes are not an integral part of production; their sole purpose is to abate or to control undesirable substances resulting from normal production.

3.2 Substances released to air - emissions of pollutants (including greenhouse gases) to the atmosphere.

Substances released to surface waters - releases of pollutants to water bodies.

On-site releases to land/underground injection - releases of pollutants to land and/or injected into the ground within the boundaries of your establishment.

Noise, vibration or radiation - control of noise, vibration or radiation.

Question 4) Pollution prevention

Pollution prevention is technologies, equipment or processes that reduce or eliminate pollution and waste at the source instead of at the end-of-pipe or stack before the pollution or waste is created. Examples include the installation of more efficient processes that consume less energy or inputs, the redesign or reformulation of the production process to reduce pollution or emissions, reuse, recirculation or recycling of materials on-site (does not include materials sent off-site for recycling).

4.1 Pollution prevention methods

Examples are listed for each category of pollution prevention. Note: lists are not exhaustive.

Product design or reformulation - changing product specifications to reduce or eliminate the use of toxic substances; modifying product design or composition to make them more environmentally friendly; modify packaging.

Equipment or process modifications (integrated process) - instituting recycling within a process; switching from the use of solvents to mechanical paint-stripping devices; modified or installed rinse systems; improved rinse equipment design; improved rinse equipment operation; modifying equipment, layout or piping; use of a different process catalyst; institute better controls on operating bulk containers or changing from small volume containers to bulk containers to minimize discarding of empty containers.

Recirculation, on-site recycling or reuse or recovery of materials or substances - such as using a small distillation unit to reclaim solvents on-site; vapour recovery; recovery of sludge; water recirculation; reuse of water for refrigeration condenser operation. *Excludes materials transferred or recycled off-site.*

Materials or feedstock substitution, solvent reduction, elimination or substitution - the use of aqueous-based rather than solvent-based cleaners; increased purity of raw materials; substituted raw materials; other raw material modifications.

Improved inventory management or purchasing techniques - avoiding the unnecessary generation of waste by ensuring that materials do not stay in inventory beyond shelf life; eliminate shelf-life requirements for stable materials; instituting better labelling procedures; instituting a clearinghouse to exchange materials that would otherwise be discarded.

Prevention of leaks and spills - taking measures to prevent releases such as installing splash guards and drip trays around equipment; modified containment procedures for cleaning units; improved draining procedures; improved storage or stacking procedures; improved procedures for loading, unloading and transfer operations; installed overflow alarms or automatic shut-off valves; installed vapour recovery systems; implemented inspection or monitoring program of potential spill or leak sources.

Good operating practices or pollution prevention training - changing production schedules to minimize equipment and feedstock changeovers; improved maintenance scheduling, record keeping or procedures; training staff to recognize and implement pollution prevention opportunities.

Other, *specify* - please specify your pollution prevention activities if they are not listed in the preceding categories.

Question 12) Environmental technologies

Examples are listed for each of the technologies and processes found in Question 12.

Description of the systems and equipment listed in Question 12:

- 1. Small, mini- or micro-hydroelectric facility** - Micro-hydro = less than 100 kW; Mini-hydro = 100 kW to 1 000 kW (1MW); Small hydro = 1 MW to 25 MW (50 MW in British Columbia).
- 2. Solar energy systems or equipment** - active and passive solar systems; photovoltaics; solar thermal generators; solar water and space heating systems.
- 3. Wind energy systems or equipment** - horizontal and vertical axis turbines; towers and other types of equipment used to generate energy and electricity.
- 4. Biomass energy** - systems and equipment (turbines, boilers, process equipment) that use organic matter such as forest and agricultural residues to produce electricity, steam, or heat.
- 5. Geothermal** - hot water or steam extracted from the Earth's interior and used for geothermal heat pumps, water heating or electricity generation.
- 6. Other renewable energy systems or equipment** - please specify your renewable energy systems and equipment if they are not listed in the preceding categories (e.g., systems and equipment for energy production from wave, tidal, and ocean thermal energy conversion systems).

Question 13) Environmental management practices

1. An **environmental management system** is a management structure that allows an establishment to assess and control the environmental impact of its activities.
2. **Life Cycle Management, Life Cycle Assessment** refer to tools that identify and measure direct and indirect environmental, energy and resource impacts associated with a product, process or service through its design, production, usage and final disposal. **Design for Environment** is the integration of environmental considerations into the design, production, distribution, use and end-of-life of products.
3. **The ISO 14000 family** (ISO14001...ISO14064 inclusive) of environmental management standards are an internationally recognized set of standards and guidelines primarily concerned with environmental management systems developed by the International Organization for Standardization.
4. A **pollution prevention plan** establishes a plan to meet or exceed compliance and improve the efficiency and environmental performance of an establishment, a specific operation or a particular product.
5. **Voluntary actions** include codes of environmental practice, guidelines, emission and waste reduction targets, as well as agreements with governments.
6. **Green procurement** describes the procurement of goods and services that minimize environmental impacts compared with goods and services with similar performance requirements. The costs and environmental impacts of a product at various stages of its life cycle are taken into consideration, such as the process used to manufacture the product (including raw materials), transport, store, handle, operate or dispose of the product.
7. **Eco-labelling programs** such as Enviro Choice (operated by TerraChoice Environmental Services Inc. for Environment Canada) are designed to encourage manufacturers and suppliers to develop environmentally preferable products and services. These eco-labelling programs are meant to help consumers identify products and services that are less harmful to the environment.
8. **Environmental supply chain management** refers to the inclusion of environmental standards in the planning and management of activities involved in sourcing and procurement, conversion, and all logistics management activities. It also includes the coordination and collaboration with channel partners, which can be suppliers, intermediaries, third-party service providers, and customers. Environmental supply chain management integrates supply and demand environmental management within and across companies.
9. **Use of energy management or monitoring system(s) to improve efficiency** - an energy conservation feature that uses computers, instrumentation, control equipment and software to manage a building's energy use for heating, ventilation, air-conditioning, lighting and for business-related processes.
10. **Performed energy audit in the last three years (2008-2010)** - an analysis of the energy consuming systems within an establishment and the identification of potential areas for reducing energy consumption.